

Form PTO-1449

U.S. DEPARTMENT OF COMMERCE
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Attny. Docket No.

Serial No.

19188PCA

09/393803

INFORMATION DISCLOSURE STATEMENT

Applicant

Liu, et al.

Filing Date

9/10/99

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1636

U.S. PATENT DOCUMENTS

*Examiner Initials		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>[Signature]</i>	A	5,298,422	3/29/94	Schwartz, et al.	435	320.1	
<i>[Signature]</i>	B	5,208,036	3/4/93	Eppstein, et al.	424	450	
	C	5,049,386	9/17/91	Eppstein, et al.	424	427	
	D	4,946,787	8/7/90	Eppstein, et al.	264	4-1	
	E	4,897,355	1/30/90	Eppstein, et al.	424	450	
	F	4,396,601	8/2/83	Salser, et al.	424	94.5	
	G	5,168,062	12/1/92	Stinski, et al.	435	366	
	H	5,036,006	7/30/91	Sanford, et al.	435	459	
	I	3,931,397	1/6/76	Harnden	514	44	
	J	4,689,320	8/25/87	Kaji	514	44	
	K	4,987,190	6/26/90	Palmenerg, et al.	525	193	
	L	4,405,712	9/20/83	Vandr Woude, et al.	435	5	
	M	4,124,702	11/7/78	Lampson, et al.	514	44	
	N	4,394,448	7/19/83	Szoka, Jr., et al.	435	458	
	O	4,806,462	2/21/89	Goodchild, et al.	430	604	
	P	4,224,404	9/23/80	Viza, et al.	435	2	
<i>[Signature]</i>	Q	5,256,553	10/26/93	Overell	435	456	

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FOREIGN PATENT DOCUMENTS

		Document Number	Priority Date	Country	Publ. Date	Class	Subclass	Translation	
								Yes	No
	R	WO 93/20212		PCT	10/14/93				
	S	WO 93/17706		PCT	9/16/93				
	T	WO 90/01543		PCT	2/22/90				
	U	WO 93/19768		PCT	11/14/93				
	V	WO 91/00359		PCT	1/10/91				
	W	WO 91/07487		PCT	5/30/91				
	X	WO 93/24640		PCT	12/9/93				
	Y	WO 90/11092		PCT	10/4/90				
	Z	WO 91/16024		PCT	10/31/91				
	AA	WO 93/12240		PCT	6/24/93				
	AB	WO 91/17424		PCT	11/14/91				
	AC	WO 93/03709		PCT	3/4/93				
	AD	WO 93/12756		PCT	7/8/93				
	AE	0 187 702 A1		EPO	7/16/86				
	AF	0 187 702 B1		EPO	7/16/86				
	AG	WO 86/00930		PCT	2/13/86				
	AH	0 585 983 A2		EPO	7/1/93				
	AI	WO 93/11250		PCT	6/10/93				
	AJ	WO 93/03143		PCT	2/18/93				
	AK	WO 94/04196		PCT	3/3/94				

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69/393803

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AL	Petit, "Antibodies That Fight AIDS Can Also Incite It, Report Says", San Francisco Chronicle, (12/15/93)
AM	Robinson, et al., "Protection Against a Lethal Influenza Virus Challenge by Immunization with a Haemagglutinin-Expressing Plasmid DNA, Vac., Vol. 11, Issue 9, pp. 957-960 (1993).
AN	Petricciani, "Global Immunization Against AIDS: Economic Considerations", Vac., Vol. 11, Issue 8, pp. 873-877 (1993).
AO	Burke, et al., "Vaccine Therapy for HIV: A Historical Review of the Treatment of Infectious Diseases by Active Specific Immunization . . .", Vac., Vol. 11, Issue 9, pp. 883-891 (1990).
AP	Troni, et al., "HIV-1 Gag Mutants Can Dominantly Interfere with the Replication of the Wild-Type Virus", Cell, Vol. 59, pp. 113-120 (10/6/89).
AO	Kobayashi, et al., "Identification and Purification of Natural Killer Cell Stimulatory Factor (NKSF), A Cytokine with Multiple Biologic . . .", J. Exp. Med., Vol. 170, pp. 827-845 (9/89).
AR	Stern, et al., "Purification to Homogeneity and Partial Characterization of Cytotoxic Lymphocyte Maturation Factor from Human B-Lymphoblastoid Cells", Proc. Natl. Acad. Sci., Imm., Vol. 87, pp. 6808-6812 (9/90).
AS	Afonso, et al., "The Adjuvant Effect of Interleukin-12 in a Vaccine Against Leishmania major", Sci., Vol. 263, pp. 235-237, (1/14/94).
AT	Townsend & Allison, "Tumor Rejection After Direct Stimulation of CD8 ⁺ T Cells by B7-Transfected Melanoma Cells", Sci., Vol. 259, pp. 368-270 (1/15/93).
AU	Gimmi, et al., "B-cell surface antigen B7 provides a costimulatory signal that induces T cells to proliferate and secrete interleukin 2", Proc. Natl. Acad. Sci. USA, Imm., Vol. 88, pp. 6575-6579 (8/91).
AV	Freeman, et al., "B7, A New Member of the Ig Superfamily with Unique Expression on Activated and Neoplastic B Cells", J. Immunology, Vol. 143, pp. 2714-2722, No. 8, (10/15/89).
AW	Edginton, "Turning On Tumor-Fighting T-Cells", Bio/Tech., Vol. 11, pp. 1117-1119 (11/10/93).
AX	Calin-Laurens, et al., "Can one predict antigenic peptides for MHC class I-restricted cytotoxic T lymphocytes useful for vaccination?", Vac., Vol. 11, Issue 9, pp. 944-978.
AY	Eriksson, et al., "Systematic identification of T-cell activating epitopes on the human immunodeficiency virus type 1 envelope glycoprotein gp120 in primates immunized with synthetic peptides", Vac., Vol. 11, Issue 8, pp. 859-8865 (1993).

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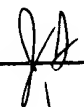

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	AZ	Berzofsky, et al., "Construction of Peptides Encompassing Multideterminant Clusters of Human Immunodeficiency Virus Envelope to Induce in Vitro T Cell", J. Clin. Inves., Inc., Vol. 88, pp. 876-884 (9/1991).
	AAA	Choppin, et al., "HLA-Binding Regions of HIV-1 Proteins", J. Immunology, Vol. 147, No. 2, pp. 575-583 (7/15/91).
	AAB	Choppin, et al., "HLA_Binding Regions of HIV-1 Proteins", J. Immunology, Vol. 147, No. 2, pp. 569-574 (7/15/91).
	AAC	Tsuiyama, et al., "Internal Ribosome Entry Site within Hepatitis C Virus RNA", J. Virology, Vol. 66, No. 3, pp. 1476-1483 (3/92).
	AAD	Shirai, et al., "Broad Recognition of Cytotoxic T Cell Epitopes from the HIV-1 Envelope Protein with Multiple Class I Histocompatibility . . .", J. Immunology, Vol. 148, No. 6, pp. 1657-1667 (3/15/92).
	AAE	Gheysen, et al., "Assembly and Release of HIV-1 Precursor Pr55gag virus-like Particles from Recombinant Baculovirus-Infected Insect Cells", Cell, Vol. 59, pp. 103-112 (10/6/89).
	AAF	Felber, et al., "A Quantitative Assay for HIV-1 Based on Trans-Activation", Sci., Vol. 239, pp. 184-187 (1/8/88).
	AAG	Cohen, "A New Goal: Preventing Disease, Not Infection", Sci., Vol. 262, pp. 1820-1821 (12/17/93).
	AAH	Shafferman, et al., "Prevention of transmission of simian immunodeficiency virus from vaccinated macaques that developed transient virus infection following challenge", Vac., Vol. 11, Issue 8, pp. 848-853 (1993).
	AAI	Colombo, et al., "Granulocyte Colony-stimulating Factor Gene Transfer Suppresses Tumorigenicity of a Murine Adenocarcinoma In Vivo", J. Exp. Med., Vol. 173, pp. 889-897 (4/91).
	AAJ	Chan, et al., "Induction of Interferon γ Production by Natural Killer Cell stimulatory Factor: Characterization of the Responder Cells . . .", J. Exp. Med., Vol. 173, pp. 869-879 (4/91).
	AAK	Philip, et al., "In Vivo Gene Delivery", J. Bio. Chem., Vol. 268, No. 22, pp. 16087-16090 (8/5/93).
	AAL	Novagen, pCITE™ System Protocols, 565 Science Dr., Madison, WI 53711
	AAM	Viral Testing Systems Corp., Catalog showing availability of IAM 41-2F5.
	AAN	Davis, et al., "DNA-based immunization induces continuous secretion of hepatitis B surface antigen and high levels of circulating antibody", J. Exp. Med., Vol. 173, pp. 889-897 (4/91).
	AAO	Dubensky, et al., "Direct transfection of viral and plasmid DNA into the liver or spleen of mice", Proc. Natl. Acad. Sci. USA, Genetics, Vol. 81, pp. 7529-7533 (12/1984).

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JSA	AAP	Seeger, et al., "The cloned genome of ground squirrel hepatitis virus is infectious in the animal", Proc. Natl. Acad. Sci. USA, Med. Sci., Vol. 81, pp. 5849-5852 (12/1984).
J	AAQ	Bluestone, "Genes in a Bottle", Bio/Tech., Vol. 10, pp. 132-136 (2/92).
	AAR	Luckow, et al., "CAT constructions with multiple unique restrictions sites for the functional analysis of eukaryotic promoters and regulatory elements", IRL Press Ltd., Oxford, England, Vol. 15, pp. 5490 (1987).
	AAS	Edgington, "PCR: Catching the Next Wave", Bio/Tech., Vol. 10, pp. 137-140 (2/92).
	AAT	Takahasi, et al., "Induction of Broadly Cross-Reactive Cytotoxic T Cells Recognizing an HIV-1 Envelope Determinant", Sci., Vol. 255, pp. 333-336 (1/17/92).
	AAU	Yang, et al., "In vivo and in vitro gene transfer to amammalian somatic cells by particle bombardment", Proc. Natl. Acad. Sci. USA, Genetics, Vol. 87, pp. 9568-9572 (12/90).
	AAV	Emini, et al., Antibody-Mediated In Vitro Neutralization of Human Immunodeficiency Virus Type 1 Abolishes Infectivity for Chimpanzees", J. of Virology, Vol. 64, No. 8, pp. 3674-3678 (8/90).
	AAW	Characterization of Bicistronic Retroviral Vector Composed of the Swine Vesicular Disease Virus Internal Ribosome Entry Site", J. Virol., Vol. 67, No. 4, pp. 2142-2148 (4/93).
	AAX	Eisenbraun, et al., "Examination of Parameters Affecting the Elicitation of Humoral Immune Responses by Particle Bombardment-Mediated Genetic Immunization", DNA and Cell Bio., Vol. 12, No. 9, pp. 791-797 (1993).
	AAZ	Rankauckas, et al., "Long-Term Anti-Nucleoprotein Cellular and Humoral Immunity Is Induced by Intramuscular Injection of Plasmid DNA Containing NP Gene", DNA and Cell Bio., Vol. 12, No. 9, pp. 771-776 (1993).
	BA	Cheng, et al., "In vivo promoter activity and transgene expression in mammalian somatic tissues evaluated by using particle bombardment", Proc. Natl. Acad. Sci. USA Genetics, Vol. 90, pp. 4455-4459 (5/93).
	BB	Nabel, et al., "Direct gene transfer with DNA-liposome complexes in melanoma: Expression, biologic activity, and lack of toxicity in humans", Proc. Natl. Acad. Sci. USA, Med. Sci., Vol. 90, pp. 11307-11311 (12/1993).
	BC	Montgomery, et al., "Heterologous and Homologous Protection Against Influenza A by DNA Vaccination: Optimization of DNA Vectors", DNA and Cell Bio., Vol. 12, No. 9, pp. 777-783 (1993).
	BD	Fynan, et al., "Use of DNA Encoding Influenza Hemagglutinin as an Avian Influenza Vaccine", DNA and Cell Bio., Vol. 12, No. 9, pp. 785-789 (1993).
J	BE	Kolata, et al., "Once More, HIV Refuses to Play by the Rules", NY Times, (12/12/93).
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Cohen, "Jitters Jeopardize AIDS Vaccine Trials", Sci., Vol. 262, pp. 980-981 (11/12/93).

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Rekosh, et al., "Coexpression of human immunodeficiency virus envelope proteins and tat from a single simian virus 40 late replacement vector", Proc. Natl. Acad. Sci. USA, Biochem., Vol. 85, pp. 334-338 (1/1998).

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JA	BU	Nabel, et al., "Site-Specific Gene Expression in Vivo by Direct Gene Transfer into the Arterial Wall", Sci., Vol. 249, pp. 1285-1288 (9/14/90).
	BV	Malone, et al., "Cationic liposome-mediated RNA transfection", Proc. Natl. Acad. Sci. UDS, Biochem., Vol. 86, pp. 6077-6087 (8/1989).
	BW	Soriano, et al., "Targeted and nontargeted liposomes for in vivo transfer to rat liver cells of a plasmid containing the preproinsulin I gene", Proc. Natl. Acad. Sci. UDS, Biochem., Vol. 80, pp. 7128-7131 (12/1983).
	BX	Mannino, et al., "Liposome Mediated Gene Transfer", BioTech., Vol. 6, No. 7, pp. 682-690 (1988).
	BY	Selter, et al., "Gene Therapy Advance - Anti-HIV Antibodies Work Inside Cells", C&EN, pp. 3-4 (8/16/93).
	BZ	Nicolau, et al. "Liposomes as Carriers for in Vivo Gene Transfer and Expression", Meth. in Enzym., Vol. 149, pp. 157-177.
	BBA	Schwartz, et al., "Induction of HIV-1 neutralising and syncytium-inhibiting antibodies in uninfected recipients of HIV-1 IIIB rgp120", Lancet, Vol. 342, pp. 69-73 (7/10/93).
	BBB	Lin, et al., "Expression of Recombinant Genes in Myocardium In Vivo After Direct Injection of DNA", Circulation, Vol. 82, No. 6, pp. 2217-2221 (12/90).
	BBC	Acsadi, et al., "Direct Gene Transfer and Expression into Rat Heart In Vivo", New Biologist, Vol. 3, No. 1, pp. 71-81 (1/91).
	BBD	Kitsis, et al., "Hormonal modulation of a gene injected into rat heart in vivo", Proc. Natl. Acad. Sci. USA, Genetics, Vol. 88, pp. 4138-4142, (5/1991).
	BBE	Buttrick, et al., "Behavior of Genes Directly Injected Into the Rat Heart In Vivo" Circulation Res., Vol. 70, No. 1, pp. 193-198 (1/92).
	BBF	Gal, et al., "Direct Myocardial Transfection in Two Animal Models", Lab. Invest., Vol. 68, No. 1, pp. 18-25 (1993).
	BBG	von Harsdorf, et al., "Gene Injection Into Canine Myocardium as a Useful Model for Studying Gene Expression in the Heart of Large Mammals", Circulations Res., Vol. 72, No. 3, pp. 688-395 (3/93).
	BBH	Hansen, et al., "Strong Expression of Foreign Genes Following Direct Injection into Fish Muscle", Fed. European Biochem. Soc., Vol., 290, No. 1,2 pp. 73-76 (9/91).
JA	BBI	Jiao, et al., "Direct Gene Transfer into Nonhuman Primate Myofibers In Vivo", Human Gene Therapy, Vol. 3, pp. 21-33 (1992).
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BBJ

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BBK

Cox, et al., "Bovine Herpesvirus 1: Immune Responses in Mice and Cattle Injected with Plasmid DNA" < J. Virol., Vol. 67, pp. 5664-5997 (9/93).

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BBM

Freeman, et al., "Structure, Expression, and T Cell Costimulatory Activity of the Murine Homologue of the Human B Lymphocyte Activation Antigen B7", J. Exp. Med., Vol. 174, pp. 625-631 (9/91).

BBN

Cudd, et al., "Intracellular fate of liposome-encapsulated DNA in mouse liver.", Biochimica et Biophysica Acta, Vol. 845, pp. 477-497 (1985).

BBO

GENEBANK Accession No. KO 3455 M38432, sequence of HIV-1, isolate of HXB2 Strain.

BBP

Abstract, 88-164720/24, Medisa Shinyaku KK, B04 D16 J6 3102-682-A.

BBQ

Abstract, 89-098031/13, Vitimin Kenkyushok, B04 D16 J0 1047-381-A.

BBR

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BBS

Feitelson, et al., "A Chronic Carrierlike State is Established in Nude Mice Injected with Cloned Hepatitis B Virus DNA", J. of Virol., Vol. 62, No. 4, pp. 1408-1415 (1988).

BBT

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BBX

Will, et al., "Cloned HBV DNA Causes Hepatitis in Chimpanzees", Nature, Vol. 299, pp. 740-742 (1982).

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BBZ	Felgner, et al., "Cationic liposome-mediated transfection", Nature, Vol. 337, No. 6205, pp. 387-388 (1989).
CA	Brigham, et al., "Rapid Communication: In Vivo Transfection of Murine Lungs with a Functioning Prokaryotic Gene Using a Liposome Vehicle", Am. J. Med. Sci., Vol. 298, pp. 278-281 (1989).
CB	Furth, et al., "Gene Transfer into Somatic Tissues by Jet Injection", Analytical Biochem., Vol. 205, pp. 365-368 (1992).
CC	Grosse, et al., "Flow Cytofluorometric Investigation of the Uptake by Hepatocytes and Spleen Cells of Targeted and Untargeted Liposomes . . .", Biochem. et Biophysica Acta, Vol. 805, pp. 354-361 (1984).
CD	Wu, et al., "Receptor-mediated Gene Delivery and Expression in Vivo", Bio. Chem., Vol. 263, No. 29, pp. 14621-14624 (1988).
CE	Wang, et al., "pH-sensitive immunoliposomes mediate target-cell-specific delivery and controlled expression of a foreign gene in mouse", Proc. Natl. Acad. Sci., Vol. 83, pp. 7851-7855 (1987).
CF	Nicolau, et al., "In vivo expression of rat insulin after intravenous administration of the liposome-entrapped gene for rat insulin I", Proc. Natl. Acad. Sci., Vol. 80, pp. 1608-1072 (1983).
CG	Felgner, et al., "Particulate systems and polymers for in vitro and in vivo delivery of polynucleotides", Advanced Drug Delivery Reviews, Vol. 5, pp. 1-25 (1990).
CH	Brigham, et al., "Expression of a Prokaryotic Gene in Cultured Lung Endothelial Cells After Lipofection with a Plasmic Vector", Amer. J. Res. Cel. and Mol. Bio., Vol. 1, pp. 95-100 (1989).
CI	Holt, et al., "Lipofection of cDNAs in the Embryonic Vertebrate Central Nervous System", Neuron, Vol. 4, pp. 203-214 (1990).
CJ	Tang, et al., "Genetic immunization is a simple method for eliciting an immune response", Nature, Vol. 356, pp. 152-154 (1992).
CK	Friedman, et al., "Progress Toward Human Gene Therapy", Sci., Vol. 244, pp. 1275-1281 (1989).
CL	Felgner, et al., "Lipofection: A highly efficient, lipid mediated DNA-transfection procedure", Proc. Natl. Acad. Sci., Vol. 84, pp. 7413-7417 (1987).
CM	Wolff, et al., "Direct Gene Transfer into Mouse Muscle in Vivo", Sci., Vol. 247, pp. 1465-1468 (1990).
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CP	Verma, "Gene Therapy", Scientific Am., pp. 68-84 (1990).
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CS	Furth, et al., Analytical Biochem., Vol. 205, pp. 365-368 (1989).
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CZ	Lichtenstein, et al., "Transgenic cereals by direct injection of DNA into plants", Nature, Vol. 325, pp. 192-194 (1987).
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CCD	Whang, et al., "Expression of the Epstein-Barr Virus gp350/220 Gene in Rodent and Primate Cells", J. Virol., Vol. 61, No. 6, pp. 1796-1807 (1987).
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CCF	Brigham, et al., Am. J. Med. Sci., Vol. 298, pp. 278-281 (1989).
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CCH	Cohen, "Naked DNA Points Way to Vaccines", Sci., Vol. 259, pp. 1691-1692 (1993).
CCI	Frieng, "Gene Therapy may aid heart ailments", USA Today, p. 1-D, Feb. 11, 1991.
CCJ	1993 Conf., Washington, DC, Bioeast, pp. 57-58, Jan. 24-27 (1993).
CKK	Waldholz, "Merck Team Develops a New Type of Vaccine from Gene Inside Virus", Wall Street Journal, Tech. & Med. Sect., March 19, 1993.
CCL	Yakubov, et al., "Mechanism of oligonucleotide uptake by cells: Involvement of specific receptors?", Proc. Natl. Acad. Sci., USA, Vol. 86, pp. 6454-6458 (1989).
CCM	Selden, et al., "Expression of the human growth hormone variant gene in cultured fibroblasts and transgenic mice", Proc. Natl. Acad. Sci., USA, Vol. 85, pp. 8241-8245 (1988).
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CCO	de Wet, et al., "Firefly Luciferase Gene: Structure and Expression in mammalian Cells", Mol. and Cell. Biol., pp. 725-734 (1987).
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CCT	Rota, et al., "Comparison of the Immune Response to Variant Influenza Type B Hemagglutinins Expressed in Vaccinia Virus", Vol. 161, No. 2, pp. 269-275 (1987).
CCU	Rodriguez, et al., Vectors a Survey of Molecular Cloning Vectors and their Uses, Butterworth, Boston, pp. 467-492 (1988).
CCV	Physicians' Desk Ref., 46th Ed., Med. Economics, NJ, pp. 1204-1206 (1992).
CCW	Davis, et al., Microbiology - Including Immunology and Molecular Genetics, Third Edition, Hagerstown, Jarper and Row, P. 294 (1980).

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Hoffenbach, et al., "Unusually High Frequencies of HIV-Specific Cytotoxic T Lymphocytes in Humans", J. of Immunol., Vol. 142, pp. 452-462, No. 9, Jan. 15, 1983.

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